

International Relations and Research Collaborations in association with School of Computer Science and Engineering, REVA University, organized a Prime Lecture on "Recent Trend in Real Time 5G-IoTCommunication" on 09th January, 2024. The event featured Dr. Nishu Gupta, Faculty of Information Technology and Electrical Engineering, at Norwegian University of Science and

Technology (NTNU) in Gjøvik, Norway. This expert talk was is benefitted to students and faculty members.





International Relations and Research Collaborations in association with School of Computer Science and Engineering

Organized

"Prime Lecture Series"

Program Report

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About the speaker and their institute

Dr. Nishu Gupta is a Senior Member, IEEE. Currently he is holding a position of Postdoctoral Fellow in the Smart Wireless Systems Group, Department of Electronic Systems, Faculty of Information Technology and Electrical Engineering, at Norwegian University of Science and Technology (NTNU) in Gjøvik, Norway. He has worked as Research Associate in the Smart Living Lab, a joint project of The Swiss Federal Institute of Technology Lausanne (EPFL), School of Engineering and Architecture of Fribourg (HEIA-FR), and University of Fribourg (UniFR) in the Digitalization and Information Systems Research Group, Department of Informatics, University of Fribourg, Switzerland.

Flow of program

The event begins with a formal welcome from the host or master of ceremonies (MC) Prof. Bhabatarini. The MC introduces the event's purpose, agenda, and important announcements.

Ashwin Kumar U M, Director of School of Computer Science and Engineering address the gathering with his welcome speech and highlighted the importance of this kind of lecture sessions.

Dr. Pasupuleti Visweswara Rao, Director of IRRC address the gathering with agenda and purpose of IRRC. And highlighted that IRRC is working towards the benefit of the students and faculty of REVA University related to international collaborations by conducting various activities.

MC introduces the Speaker of the event Dr. Nishu Gupta and invites him to address the gathering. Dr. Nishu Gupta felicitated by Director of School of CSE, Director of IRRC and Pro Vice Chancellor.

Dr. R C Biradar, Pro Vice Chancellor encourages the students to attend this kind of events and also enlightened how recent trends and technologies is important to build future India.

Dr. Nishu Gupta delivers his thoughts and insights about the Recent Trend in Real Time 5G-IoT Communication followed by question answer session.

About the talk and other discussions

The integration of 5G technology with the Internet of Things (IoT) has been an area of significant interest and development. One of the most significant advantages of 5G technology is its low latency, which is essential for real-time communication in IoT applications such as autonomous vehicles, industrial automation, and remote surgery. Recent trends focus on leveraging this low latency to enable instantaneous data transfer and decision-making in IoT systems. With the proliferation of IoT devices generating massive amounts of data, there's a growing need to process data closer to the source to reduce latency and bandwidth usage. Edge computing, combined with 5G networks, allows for real-time data processing and analysis at the edge of the network, enabling faster response times and more efficient use of network resources. 5G networks support network slicing, which enables the creation of multiple virtual networks on a single physical infrastructure. This capability allows IoT applications to have dedicated network slices tailored to their specific requirements, such as bandwidth, latency, and security, ensuring optimal performance for real-time communication. 5G technology enables connectivity for a massive number of IoT devices, ranging from sensors and actuators to wearable devices and smart appliances. Recent trends in real-time 5G-IoT communication focus on efficiently managing and coordinating communication among these vast numbers of devices while ensuring low latency and high reliability. AI and machine learning algorithms play a crucial role in optimizing real-time 5G-IoT communication. These technologies enable predictive analytics, anomaly detection, and intelligent decision-making, enhancing the efficiency, reliability, and security of IoT systems operating on 5G networks.

Overall, the recent trend in real-time 5G-IoT communication revolves around harnessing the capabilities of 5G networks to enable low-latency, high-reliability communication for a wide range of IoT applications, while addressing challenges related to security, scalability, and interoperability.

Speaker also shares the information related to internship opportunity for the students in his university and post doc opportunity for the faculty members.

Total no. of attendees

85 students attended the program.

Outcome of program

The event achieves its intended purpose i.e. increasing awareness about the recent trend in 5G technology.

Dr. Ashwin Kumar U M welcoming the gathering



Felicitation of Guest Speaker by the dignitaries



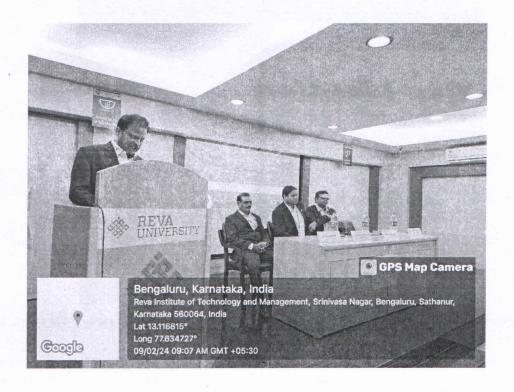
Dr. Nishu Gupta Sharing his insights about the 5G technology with the Internet of Things (IoT)

Attendees were satisfied, enjoyed the session, found it valuable, and potentially made meaningful connections with other attendees and speakers. Also looking for the future opportunity related to the shared domain in terms of project or internship.

Photos from the program



Dr. Nishu Gupta with Director of School of CSE, Director of IRRC, Professor of Emirates and IRRC co Ordinator, School of CSE.



Attendance sheet

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IRRC School Coordinator Director School of Computer Science and Engineering

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